STATUS DECISION OF CONTROLLED AND NON-CONTROLLED SUBSTANCE(S)

Substance: JWH-022

Based on the current information available to the Office of Controlled Substances, it appears that the above substance is:

Controlled ☐
Not Controlled ✓

under the schedules of the Controlled Drugs and Substances Act (CDSA) for the following reason(s):

• The substance is a synthetic cannabinoid but there is currently no information in the scientific literature regarding its efficacy as a cannabinoid receptor agonist and therefore it cannot included under item 1 of Schedule II to the CDSA.

Prepared by: _______________ Date: February 29th, 2012
Vincent Marleau

Verified by: __________________ Date: __________
Mark Kozlowski

Approved by: __________________ Date: __________
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: Elaine Radulski
Drug Status Report

Drug: JWH-022

Drug Name Status: JWH-022 is the common name.

Chemical Name: 1-naphthalenyl[1-(4-penten-1-yl)-1H-indol-3-yl]-methanone

Chemical structure:

![Chemical Structure](image)

Molecular Formula: $C_{24}H_{21}NO$

Pharmacological class / Application: Synthetic cannabinoid

CAS-RN: 209414-16-4

International status:

US: JWH-022 is not listed specifically in the Schedules to the US *Controlled Substances Act* and is not mentioned anywhere on the DEA website.

United Nations: The substance is not listed on the Yellow List - List of Narcotic Drugs under International Control, the Green List - List of Psychotropic Substances under International Control, nor the Red List - List of Precursors and Chemicals Frequently Used in the Illicit Manufacture of Narcotic Drugs and Psychotropic Substances Under International Control.

Canadian Status: JWH-022 is not listed specifically in the CDSA. The substance is a synthetic cannabinoid, which have been reported to display potent binding affinities for the cannabinoid CB$_1$ and CB$_2$ receptors$^{1,2}$. However, there is currently no information in the scientific literature regarding its efficacy as a cannabinoid receptor agonist. Cannabinoid receptor agonists have

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been declared included under Item 1 of Schedule II to the CDSA under the heading “Cannabis, its preparations, derivatives and similar synthetic preparations, including”, while cannabinoid receptor antagonists have been specifically excluded. Given that there is currently no information in the scientific literature on the efficacy of this substance as a cannabinoid receptor agonist, it cannot be included under item 1 of Schedule II to the CDSA.

**Recommendation:** JWH-022 is not included under item 1 of Schedule II to the CDSA and is not a controlled substance.

**Date:** February 29th, 2012.